

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>ST0003</b>	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
<b>Sutter Maintenance Yard East Levee Sacramento River</b>	<b>M *</b>	<b>26.82</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.83		0.83	3.10%	0.01			
Trim / Thin Trees	0.07		0.07	0.26%				
Encroachments					1.83	0.06		
Animal Control	0.08	0.01	0.12	0.45%				
Slope Stability	0.05		0.05	0.19%				
Erosion / Bank Caving	0.02		0.02	0.08%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.36		0.36	1.34%				
DWR UCIP Field Study					0.38	0.11		
<i>LMA Totals:</i>	1.41	0.01	1.45	5.41% *	2.22	0.17	0.00	0.00
<b>Unit No. 01 Sacramento River LB</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
<b>ST0003</b>	<b>M *</b>	<b>19.85</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.05		0.05	0.25%	0.01			
Trim / Thin Trees	0.04		0.04	0.20%				
Encroachments					1.24	0.06		
Animal Control	0.08	0.01	0.12	0.60%				
Slope Stability	0.04		0.04	0.20%				
Erosion / Bank Caving	0.01		0.01	0.05%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.36		0.36	1.81%				
DWR UCIP Field Study					0.37	0.11		
<i>Unit Totals:</i>	0.58	0.01	0.62	3.12% *	1.62	0.17	0.00	0.00
<b>Unit No. 02 Colusa Bypass RB</b>	Overall Unit Rating	Total Unit Miles						
<b>ST0003</b>	<b>A</b>	<b>2.20</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.18		0.18	8.19%				
Trim / Thin Trees	0.02		0.02	0.91%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.20	0.00	0.20	9.10%	0.01	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**

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**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin (cont.)**

<b>Unit No. 03 Colusa Bypass LB</b>	Overall Unit Rating	Total Unit Miles						
ST0003	<b>U</b>	<b>2.29</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.60		0.60	26.23%				
Trim / Thin Trees	0.01		0.01	0.44%				
Slope Stability	0.01		0.01	0.44%				
Erosion / Bank Caving	0.01		0.01	0.44%				
<i>Unit Totals:</i>	0.63	0.00	0.63	27.54%	0.00	0.00	0.00	0.00

  

<b>Unit No. 04 Moulton Bypass RB</b>	Overall Unit Rating	Total Unit Miles						
ST0003	<b>A</b>	<b>0.30</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

  

<b>Unit No. 05 Moulton Bypass LB</b>	Overall Unit Rating	Total Unit Miles						
ST0003	<b>A</b>	<b>2.19</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.59			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.59	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sacramento River**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	19.85
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	3/22/2016 - 3/22/2016		10/20/2016 - 10/26/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By			Bryan Reniff Sutter Maintenance Yard	

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f_2016_10				
Comment Code					
Inspector Comment					
LMA has O+M manual.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f_2016_15				
Comment Code					
Inspector Comment					
LMA has a stockpile of supplies.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f_2016_16				
Comment Code					
Inspector Comment					
The LMA attends annual training and maintains emergency response plans.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	0.15	Rating **	U	Issue No.	3
LM End	0.20	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194978 °	39.195022 °
				-121.937502 °	-121.938563 °
DWR ID	DWR_ST0003_01_s _ 2012_3				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_3\_20161104\_00122.jpg



View of the trailers and building on the waterside.

LM Start	0.24	Rating **	M	Issue No.	82
LM End	0.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.195234 °	39.195234 °
				-121.939124 °	-121.939124 °
DWR ID	DWR_ST0003_01_f _2016_82				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	0.42	Rating **	M	Issue No.	81
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.196483 °	39.196483 °
				-121.942228 °	-121.942228 °
DWR ID	DWR_ST0003_01_f_2016_81				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_81\_20161104\_00123.jpg



View of the ruts along the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.17	Rating **	M	Issue No.	80
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.194126 °	39.194126 °
				-121.953345 °	-121.953345 °
DWR ID	DWR_ST0003_01_f_2016_80				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_80\_20161104\_00124.jpg



View of the slope instability along the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.17	Rating **	U	Issue No.	118
LM End	1.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50629  
DS\_ID:17319  
EP\_NO: 9527  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms)  
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].  
FS Date: 11/7/2016 2:37:24 PM

Photo 1 of 2 : UCIP\_FA\_2016\_50629\_46983.jpg



Waterside view: overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.17	Rating **	U	Issue No.	118 (cont)
LM End	1.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50629 DS_ID:17319 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)]. FS Date: 11/7/2016 2:37:24 PM					

Photo 2 of 2 : UCIP\_FA\_2016\_50629\_46981.jpg



Waterside view: CMP riser with slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.44	Rating **	U	Issue No.	119
LM End	1.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50630  
DS\_ID:17320  
EP\_NO: 9543  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]  
FS Date: 11/7/2016 2:38:27 PM

Photo 1 of 2 : UCIP\_FA\_2016\_50630\_46992.jpg



Waterside view: overview of river bank

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.44	Rating **	U	Issue No.	119 (cont)	
LM End	1.44	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.192502 °	39.192502 °	
				-121.958062 °	-121.958062 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50630 DS_ID:17320 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)] FS Date: 11/7/2016 2:38:27 PM						

Photo 2 of 2 : UCIP\_FA\_2016\_50630\_46991.jpg



Waterside view: water flowing from outlet pipe (pipe fully submerge)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.62	Rating **	M	Issue No.	83
LM End	1.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.190835 °	39.190835 °
				-121.960628 °	-121.960628 °
DWR ID	DWR_ST0003_01_f_2016_83				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_83\_20161104\_00125.jpg



View of the rodent holes along the landside slope.

LM Start	1.91	Rating **	M	Issue No.	120
LM End	1.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188180 °	39.188180 °
				-121.964688 °	-121.964688 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50631					
DS_ID:17322					
EP_NO: 9258					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 11/7/2016 WS riser still full of soil. No pump present					
and 10" pipe left opened on the WS. (DWR Sutter Yard-					
AFreitag)6/17/2016 Same as last inspection. 4/6/2015 CMP riser					
filled with silt/soil on WS. No other issues present.6/30/2014 Same					
as last inspection.12/30/2013 Same as last inspection.7/29/2013					
Same as last inspection.					
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe					
through the levee, 3.7 feet below the crown. Pump installed on the					
waterside (WS). (Permit No. 9258, 1974 - Harada). [Additional					
Reference(s): DWR Levee Log, 2002].					
FS Date: 11/7/2016 2:43:45 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_50631\_46998.jpg



Waterside view: overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.91	Rating **	M	Issue No.	120 (cont)
LM End	1.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188180 °	39.188180 °
				-121.964688 °	-121.964688 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50631 DS_ID:17322 EP_NO: 9258 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/7/2016 WS riser still full of soil. No pump present and 10" pipe left opened on the WS. (DWR Sutter Yard-AFreitag)6/17/2016 Same as last inspection. 4/6/2015 CMP riser filled with silt/soil on WS. No other issues present.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3.7 feet below the crown. Pump installed on the waterside (WS). (Permit No. 9258, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/7/2016 2:43:45 PM					

Photo 2 of 2 : UCIP\_FA\_2016\_50631\_46997.jpg



Waterside view: overview of CMP riser

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.91	Rating **	U	Issue No.	121
LM End	1.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50632  
DS\_ID:17321  
EP\_NO: 9543  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Abandoned. (DWR Sutter Yard - A Freitag) 6/17/2016 Abandoned crossing. (DWR Sutter Yard - A Freitag) 4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel) 4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - A Freitag) 6/30/2014 Same as last inspection. (DWR Sutter Yard - A Freitag) 12/30/2013 Same as last inspection. (DWR Sutter Yard - A Freitag) 7/29/2013 Same as last inspection. (DWR Sutter Yard - A Freitag) 12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].  
FS Date: 11/7/2016 2:53:31 PM

Photo 1 of 2 : UCIP\_FA\_2016\_50632\_47004.jpg



Waterside view: pipe @river bank

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	1.91	Rating **	U	Issue No.	121 (cont)
LM End	1.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50632  
DS\_ID:17321  
EP\_NO: 9543  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Abandoned. (DWR Sutter Yard - A Freitag) 6/17/2016 Abandoned crossing. (DWR Sutter Yard - A Freitag) 4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel) 4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - A Freitag) 6/30/2014 Same as last inspection. (DWR Sutter Yard - A Freitag) 12/30/2013 Same as last inspection. (DWR Sutter Yard - A Freitag) 7/29/2013 Same as last inspection. (DWR Sutter Yard - A Freitag) 12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].  
FS Date: 11/7/2016 2:53:31 PM

Photo 2 of 2 : UCIP\_FA\_2016\_50632\_47003.jpg



Waterside view: abandoned pump station.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	2.07	Rating **	M	Issue No.	84
LM End	2.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.187776 °	39.187776 °
				-121.967516 °	-121.967516 °
DWR ID	DWR_ST0003_01_f_2016_84				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_84\_20161104\_00126.jpg



View of the rodent holes along the landside slope.

LM Start	2.08	Rating **	M	Issue No.	122
LM End	2.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.187717 °	39.187717 °
				-121.967712 °	-121.967712 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50633 DS_ID:17305 EP_NO: 9541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/7/2016 Abandoned. (DWR Sutter Yard-AFreitag)6/6/2016 Abandoned crossing. Should be properly abandoned.4/6/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)]. FS Date: 11/7/2016 2:56:05 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_50633\_47013.jpg



Waterside view: overview

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	2.08	Rating **	M	Issue No.	122 (cont)	
LM End	2.08	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.187717 °	39.187717 °	
				-121.967712 °	-121.967712 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50633 DS_ID:17305 EP_NO: 9541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/7/2016 Abandoned. (DWR Sutter Yard-AFreitag)6/6/2016 Abandoned crossing. Should be properly abandoned.4/6/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)]. FS Date: 11/7/2016 2:56:05 PM						

Photo 2 of 2 : UCIP\_FA\_2016\_50633\_47011.jpg



Waterside view: overview of pipe

LM Start	2.45	Rating **	M	Issue No.	86
LM End	2.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.187911 °	39.187955 °
				-121.974591 °	-121.974693 °
DWR ID	DWR_ST0003_01_f_2016_86				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	2.56	Rating **	M	Issue No.	123
LM End	2.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188768 °	39.188768 °
				-121.976305 °	-121.976305 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50635 DS_ID:17309 EP_NO: 9541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/7/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not vidible so could not be measured. (DWR Sutter Yard- AFreitag)6/6/2016 Cannot locate the WS headwall/flapgate. Appears to have been silted over.4/6/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)]. FS Date: 11/7/2016 2:57:48 PM					

LM Start	<b>2.56</b>	Rating **	M	Issue No.	<b>123 (cont)</b>
LM End	<b>2.56</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50635\_47027.jpg



Waterside view: overview- concrete surg tank

Photo 2 of 2 : UCIP\_FA\_2016\_50635\_47026.jpg



Waterside view: overview- concrete surg tank

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	3.41	Rating **	U	Issue No.	124
LM End	3.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50639  
DS\_ID:17312  
EP\_NO: 9539  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- A Freitag)6/6/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - a Freitag)4/6/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - a Freitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)  
FIELD\_STRUCT\_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].  
FS Date: 11/7/2016 3:02:22 PM

Photo 1 of 2 : UCIP\_FA\_2016\_50639\_47049.jpg



Waterside view: plugged concrete structure and siphon breakers

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	3.41	Rating **	U	Issue No.	124 (cont)
LM End	3.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50639  
DS\_ID:17312  
EP\_NO: 9539  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- A Freitag)6/6/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - a Freitag)4/6/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - a Freitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)  
FIELD\_STRUCT\_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].  
FS Date: 11/7/2016 3:02:22 PM

Photo 2 of 2 : UCIP\_FA\_2016\_50639\_47046.jpg



Landside view: overview- concrete culvert and pipes

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	3.51	Rating **	M	Issue No.	87	
LM End	3.51	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.199578 °		39.199578 °
				-121.985373 °		-121.985373 °
DWR ID	DWR_ST0003_01_f_2016_87					
Comment Code						
EQ : Equipment						
Inspector Comment						

No Photos

LM Start	3.54	Rating **	M	Issue No.	11
LM End	3.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.200007 °	39.203634 °
				-121.985257 °	-121.982977 °
DWR ID	DWR_ST0003_01_f_2016_11				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_11\_20160823\_00006.jpg



View of a trailer next to the waterside toe.

LM Start	3.78	Rating **	M	Issue No.	78
LM End	3.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.203163 °	39.203163 °
				-121.983285 °	-121.983285 °
DWR ID	DWR_ST0003_01_f_2016_78				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	3.85	Rating **	M	Issue No.	154
LM End	3.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50797  
DS\_ID:17314  
EP\_NO: 9501-1  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it. 4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly. 4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done. 12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.  
FIELD\_STRUCT\_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.  
FS Date: 11/21/2016 7:27:09 AM

Photo 1 of 2 : UCIP\_FA\_2016\_50797\_71480.jpg



WS river bank

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	3.85	Rating **	M	Issue No.	154 (cont)
LM End	3.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50797  
DS\_ID:17314  
EP\_NO: 9501-1  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it. 4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm.6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in.7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.  
FIELD\_STRUCT\_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.  
FS Date: 11/21/2016 7:27:09 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50797\_71479.jpg



WS standpipe with shut off valve inside

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.44	Rating **	U	Issue No.	142
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50801  
DS\_ID:17297  
EP\_NO: 9501-A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Orange pump was not present at this inspection. 10" pipe penetration left opened on WS end. (DWR Sutter Yard - A Freitag)6/17/2016 Orange pump motor was lowered down the WS berm to water level and was pumping water through the pipe to the LS outlet. What is pictured in (photo#17 UCIP\_Photos\_No.75150) as "pipe debris" is the pipe section that is used to connect the orange pump to the open 10" pipe that penetrates the levee. In the same photo the "possible penetration" is the flexible suction line for the pump. (DWR Sutter Yard - a Freitag)4/4/2016 Flow meter installed on LS indicates this pipe is used seasonally and not abandoned. Pipe open on WS (see photo). No cover on old siphon breaker. Slight sloughing of LS slope. (DWR UCIP - kfazel)4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. (DWR Sutter Yard - a Freitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. (DWR Sutter Yard - a Freitag)12/12/2012 Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker off the landside (LS) shoulder. Motor and pump on the waterside (WS) at water level. The pipe is open through the WS slope with an air vent on the apex of the pipe. Another piece of pipe, found laying on the WS slope in 2016, is used to connect the 10-inch open pipe to the pump at the water level. A flexible suction line for the pump found in the water above the pump and motor. Abandoned 16-inch crossing (DSID 17326) associated with this permit also at this location. Pipe through the LS slope is steel with polyvinyl chloride (PVC) pipe installed at its flange; PVC pipe partially penetrates the LS slope. Flow meter installed to PVC pipe section on LS. (Permit No. 9501-A, 1978 - Mayfair Packing, Inc.).  
[Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 11/21/2016 7:33:17 AM

Photo 1 of 2 : UCIP\_FA\_2016\_50801\_47068.jpg



Crown view: transverse cracks on levee road.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.44	Rating **	U	Issue No.	142 (cont)
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50801  
DS\_ID:17297  
EP\_NO: 9501-A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Orange pump was not present at this inspection. 10" pipe penetration left opened on WS end. (DWR Sutter Yard- A Freitag)6/17/2016 Orange pump motor was lowered down the WS berm to water level and was pumping water through the pipe to the LS outlet. What is pictured in (photo#17 UCIP\_Photos\_No.75150) as "pipe debris" is the pipe section that is used to connect the orange pump to the open 10" pipe that penetrates the levee. In the same photo the "possible penetration" is the flexible suction line for the pump. (DWR Sutter Yard - a Freitag)4/4/2016 Flow meter installed on LS indicates this pipe is used seasonally and not abandoned. Pipe open on WS (see photo). No cover on old siphon breaker. Slight sloughing of LS slope. (DWR UCIP - kfazel)4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. (DWR Sutter Yard - a Freitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. (DWR Sutter Yard - a Freitag)12/12/2012 Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker off the landside (LS) shoulder. Motor and pump on the waterside (WS) at water level. The pipe is open through the WS slope with an air vent on the apex of the pipe. Another piece of pipe, found laying on the WS slope in 2016, is used to connect the 10-inch open pipe to the pump at the water level. A flexible suction line for the pump found in the water above the pump and motor. Abandoned 16-inch crossing (DSID 17326) associated with this permit also at this location. Pipe through the LS slope is steel with polyvinyl chloride (PVC) pipe installed at its flange; PVC pipe partially penetrates the LS slope. Flow meter installed to PVC pipe section on LS. (Permit No. 9501-A, 1978 - Mayfair Packing, Inc.).  
[Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 11/21/2016 7:33:17 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50801\_47067.jpg



Waterside view: overview of pump and abandoned pipe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.44	Rating **	U	Issue No.	143
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50802  
DS\_ID:17326  
EP\_NO: 9501  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard - A Freitag) 6/17/2016 Abandoned pipe. photo comments updated. (DWR Sutter Yard - a Freitag) 4/4/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel) 4/6/2015 Same as last inspection. (DWR Sutter Yard - a Freitag) 6/30/2014 Same as last inspection. (DWR Sutter Yard - a Freitag) 12/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 7/29/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 12/12/2012 Need to be properly abandoned. Transverse cracks on levee road. Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - Mayfair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]  
FS Date: 11/21/2016 7:33:56 AM

LM Start	<b>4.44</b>	Rating **	U	Issue No.	<b>143 (cont)</b>
LM End	<b>4.44</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50802\_47080.jpg



Crown view: cracks along pipe alignment (transverse crack)

Photo 2 of 2 : UCIP\_FA\_2016\_50802\_47079.jpg



Waterside view: overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.44	Rating **	M	Issue No.	144
LM End	4.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50803  
DS\_ID:17484  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- afreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)6/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. (DWR UCIP - kfazel)4/6/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and deteriorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya) FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)].  
FS Date: 11/21/2016 7:35:59 AM

LM Start	<b>4.44</b>	Rating **	M	Issue No.	<b>144 (cont)</b>
LM End	<b>4.44</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50803\_47087.jpg



Crown view: transverse crack on levee road

Photo 2 of 2 : UCIP\_FA\_2016\_50803\_47086.jpg



Waterside view: overview of concrete surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.64	Rating **	U	Issue No.	145
LM End	4.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50804  
DS\_ID:17318  
EP\_NO: 9501  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)4/6/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse. 12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 11/21/2016 7:37:06 AM

Photo 1 of 2 : UCIP\_FA\_2016\_50804\_47092.jpg



Waterside view: overview

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.64	Rating **	U	Issue No.	145 (cont)
LM End	4.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50804  
DS\_ID:17318  
EP\_NO: 9501  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)4/6/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse. 12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 11/21/2016 7:37:06 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50804\_47091.jpg



Waterside view: overview of pump station

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.64	Rating **	M	Issue No.	106
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.212632 °	39.212632 °
				-121.990409 °	-121.990409 °
DWR ID	DWR_ST0003_01_f_2016_106				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_106\_20161104\_00127.jpg



View of the erosion next to a pipe along the landside slope.

LM Start	4.72	Rating **	M	Issue No.	12
LM End	4.72	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.213265 °	39.213265 °
				-121.991672 °	-121.991672 °
DWR ID	DWR_ST0003_01_s_2012_12				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_12\_20160823\_00007.jpg



View of the barn on the large crown of the levee.

LM Start	4.75	Rating **	M	Issue No.	105
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.213509 °	39.213665 °
				-121.991993 °	-121.992220 °
DWR ID	DWR_ST0003_01_f_2016_105				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	4.76	Rating **	M	Issue No.	104
LM End	4.76	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.213650 °	39.213650 °
				-121.992219 °	-121.992219 °
DWR ID	DWR_ST0003_01_f_2016_104				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_104\_20161104\_00128.jpg



View of the overgrown trees along the crown.

LM Start	5.03	Rating **	M	Issue No.	150
LM End	5.03	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50806 DS_ID:17287 EP_NO: 9520 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 11/7/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- A Freitag)6/6/2016 Appears to be an abandoned crossing.4/6/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)]. FS Date: 11/21/2016 7:38:39 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_50806\_47107.jpg



Waterside view: overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	5.03	Rating **	M	Issue No.	150 (cont)
LM End	5.03	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50806 DS_ID:17287 EP_NO: 9520 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 11/7/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/6/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)]. FS Date: 11/21/2016 7:38:39 AM					

Photo 2 of 2 : UCIP\_FA\_2016\_50806\_47106.jpg



Waterside view: CMP riser with slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	5.04	Rating **	M	Issue No.	151
LM End	5.04	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214954 °	39.214954 °
				-121.997014 °	-121.997014 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50807  
DS\_ID:17288  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 11/7/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/4/2016 If abandoned, should be done so properly.4/6/2015 Same as last inspection. Only WS riser amd slide gate found.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].  
FS Date: 11/21/2016 7:42:20 AM

LM Start	<b>5.04</b>	Rating **	M	Issue No.	<b>151 (cont)</b>
LM End	<b>5.04</b>	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP\_FA\_2016\_50807\_47112.jpg



Waterside view: CMP riser with slide gate (right)

Photo 2 of 2 : UCIP\_FA\_2016\_50807\_47111.jpg



Waterside view: CMP riser with slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	5.04	Rating **	M	Issue No.	152
LM End	5.04	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50808  
DS\_ID:17289  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pupming water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]  
FS Date: 11/21/2016 7:51:40 AM

Photo 1 of 2 : UCIP\_FA\_2016\_50808\_47115.jpg



Waterside view: overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	5.04	Rating **	M	Issue No.	152 (cont)
LM End	5.04	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50808  
DS\_ID:17289  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pupming water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]  
FS Date: 11/21/2016 7:51:40 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50808\_47113.jpg



Waterside view: CMP riser and surge box

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	5.15	Rating **	M	Issue No.	153
LM End	5.15	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.215409 °	39.215409 °
				-121.999061 °	-121.999061 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50810  
DS\_ID:17291  
EP\_NO: 4091  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.4/6/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 11/21/2016 7:55:53 AM

LM Start	<b>5.15</b>	Rating **	M	Issue No.	<b>153 (cont)</b>
LM End	<b>5.15</b>	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP\_FA\_2016\_50810\_47127.jpg



Waterside view: concrete pipe riser with gate valve

Photo 2 of 2 : UCIP\_FA\_2016\_50810\_47126.jpg



Waterside view: buried gate valve in concrete pipe riser

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	5.32	Rating **	M	Issue No.	102
LM End	5.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.216516 °	39.216516 °
				-122.001852 °	-122.001852 °
DWR ID	DWR_ST0003_01_f_2016_102				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

LM Start	5.33	Rating **	M	Issue No.	101
LM End	5.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.216560 °	39.216560 °
				-122.002054 °	-122.002054 °
DWR ID	DWR_ST0003_01_f_2016_101				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_101\_20161104\_00129.jpg



View of the rodent holes along the landside slope.

LM Start	5.42	Rating **	M	Issue No.	100
LM End	5.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.217047 °	39.217047 °
				-122.003632 °	-122.003632 °
DWR ID	DWR_ST0003_01_f_2016_100				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_100\_20161104\_00130.jpg



View of the ag equipment along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	6.40	Rating **	M	Issue No.	107
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.223796 °	39.223796 °
				-121.999014 °	-121.999014 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50548 DS_ID:17306 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 13/31/2016 Appears abandoned. (DWR Sutter Yard-Afreitag)6/1/2016 Appears to be an abandoned crossing. WS end is about 90% buried with soil and the LS end is still unknown.4/1/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially burried, it needs cleaning.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/1/2016 11:43:45 AM					

LM Start	<b>6.40</b>	Rating **	M	Issue No.	<b>107 (cont)</b>
LM End	<b>6.40</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50548\_47158.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 2 : UCIP\_FA\_2016\_50548\_47156.jpg



Waterside view: inside CMP riser

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	6.47	Rating **	M	Issue No.	99
LM End	6.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.224719 °	39.224719 °
				-121.998623 °	-121.998623 °
DWR ID	DWR_ST0003_01_f_2016_99				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_99\_20161104\_00131.jpg



View of the overgrown vegetation along the landside slope.

LM Start	6.51	Rating **	M	Issue No.	98
LM End	6.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.225307 °	39.225307 °
				-121.998755 °	-121.998755 °
DWR ID	DWR_ST0003_01_f_2016_98				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_98\_20161104\_00132.jpg



View of the ag equipment along the landside toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	6.64	Rating **	M	Issue No.	108
LM End	6.64	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.226991 °	39.226991 °
				-121.999907 °	-121.999907 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50549  
DS\_ID:17296  
EP\_NO: 9530  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/31/2016 Abandoned. (DWR Sutter Yard-Afreitag)6/1/2016 Abandoned- only WS riser and screwgate found.4/1/2015 Only cmp riser with screwgate found on WS. Screwgate stem is bent.Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 6.61)].  
FS Date: 11/1/2016 11:58:16 AM

LM Start	<b>6.64</b>	Rating **	M	Issue No.	<b>108 (cont)</b>
LM End	<b>6.64</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50549\_47181.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 2 : UCIP\_FA\_2016\_50549\_47180.jpg



Waterside view: inside CMP riser

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	6.75	Rating **	M	Issue No.	96
LM End	6.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.228291 °	39.228291 °
				-121.998579 °	-121.998579 °
DWR ID	DWR_ST0003_01_f_2016_96				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.75	Rating **	M	Issue No.	97
LM End	6.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.228291 °	39.228291 °
				-121.998579 °	-121.998579 °
DWR ID	DWR_ST0003_01_f_2016_97				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.78	Rating **	C	Issue No.	14
LM End	6.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.228535 °	39.228535 °
				-121.998330 °	-121.998330 °
DWR ID	DWR_ST0003_01_s_2015_14				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
The erosion along the waterside slope needs to be repaired.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	6.92	Rating **	M	Issue No.	109
LM End	6.92	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229670 °	39.229670 °
				-121.996313 °	-121.996313 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50551 DS_ID:17298 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/31/2016 Unable to locate. (DWR Sutter Yard-Afreitag)6/1/2016 Unable to locate.4/1/2015 Unable to locate.Need to determine status of crossing.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2.5-inch gas pipeline of an unknown material through the levee, 1 foot below the crown. Gas storage tanks on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/1/2016 12:05:05 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	7.58	Rating **	M	Issue No.	110
LM End	7.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.238153 °	39.238153 °
				-121.995024 °	-121.995024 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50554  
DS\_ID:17300  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/31/2016 Abandoned (DWR Sutter Yard-Afreitag)6/1/2016 Abandoned4/1/2015 Only cmp riser and slide gate found on WS.Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)].  
FS Date: 11/1/2016 12:16:12 PM

LM Start	<b>7.58</b>	Rating **	M	Issue No.	<b>110 (cont)</b>
LM End	<b>7.58</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50554\_47189.jpg



Waterside view: overview

Photo 2 of 2 : UCIP\_FA\_2016\_50554\_47188.jpg



Waterside view: CMP riser with slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	7.72	Rating **	M	Issue No.	111
LM End	7.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239458 °	39.239458 °
				-121.993398 °	-121.993398 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50555 DS_ID:17301 EP_NO: 9532 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- Afreitag)6/1/2016 Appears to be an abandoned crossing.4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)]. FS Date: 11/1/2016 12:19:05 PM					

No Photos

LM Start	8.32	Rating **	N	Issue No.	95
LM End	8.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.246296 °	39.246296 °
				-121.998795 °	-121.998795 °
DWR ID	DWR_ST0003_01_f_ 2016_95				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	8.32	Rating **	M	Issue No.	112
LM End	8.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50558  
DS\_ID:17304  
EP\_NO: 9529  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 Abandoned (DWR Sutter Yard-Afreitag)6/1/2016 Abandoned- only WS riser and slide gate found.4/1/2015 CMP riser and slide gate on WS. LS distribution box is silted in. Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)].  
FS Date: 11/1/2016 12:23:44 PM

LM Start	<b>8.32</b>	Rating **	M	Issue No.	<b>112 (cont)</b>
LM End	<b>8.32</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50558\_47202.jpg



Crown view: overview (both sides of the levee)

Photo 2 of 2 : UCIP\_FA\_2016\_50558\_47201.jpg



Waterside view: overview of CMP riser

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	8.38	Rating **	M	Issue No.	113
LM End	8.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.247098 °	39.247098 °
				-121.999055 °	-121.999055 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50560 DS_ID:17338 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 10/31/2016 Only the LS standpipe and airvent found.6/1/2016 Still only the vacuum breaker on LS shoulder visible.4/1/2015 Only vacuum breaker found on LS shoulder.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: Pipe of unknown diameter, purpose and material through the levee, at an unknown depth below the crown, not found. Vacuum breaker inside steel standpipe on the landside (LS) shoulder, found in 2015. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/1/2016 12:27:11 PM					

LM Start	<b>8.38</b>	Rating **	M	Issue No.	<b>113 (cont)</b>
LM End	<b>8.38</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50560\_47206.jpg



Waterside view: overview

Photo 2 of 2 : UCIP\_FA\_2016\_50560\_47205.jpg



Waterside view: vacuum breaker inside a steel pipe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	8.56	Rating **	M	Issue No.	114
LM End	8.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.249678 °	39.249678 °
				-121.999021 °	-121.999021 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50562 DS_ID:17327 EP_NO: 9528 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/31/2016 Abandoned. (DWR Sutter Yard-Afreitag)6/13/2016- Pipe was internally cleaned and camaera inspected by Nor-Cal Pipeline Services on 10/29/2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 4/1/2015. After the inspection the pipe ends were capped and reburied.4/14/2016- Same as last inspection.4/1/2015- Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found.6/30/2014- Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)]. FS Date: 11/1/2016 1:06:31 PM					

LM Start	<b>8.56</b>	Rating **	M	Issue No.	<b>114 (cont)</b>
LM End	<b>8.56</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50562\_47210.jpg



Waterside view: overview

Photo 2 of 2 : UCIP\_FA\_2016\_50562\_47209.jpg



Waterside view: buried slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	<b>8.65</b>	Rating **	M	Issue No.	<b>94</b>
LM End	<b>8.65</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.250774 °	39.250774 °	
			-121.998242 °	-121.998242 °	
DWR ID	DWR_ST0003_01_f_2016_94				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	<b>8.68</b>	Rating **	M	Issue No.	<b>93</b>
LM End	<b>8.68</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.251225 °	39.251225 °	
			-121.997931 °	-121.997931 °	
DWR ID	DWR_ST0003_01_f_2016_93				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	8.70	Rating **	M	Issue No.	115
LM End	8.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.251504 °	39.251504 °
				-121.997879 °	-121.997879 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50564  
DS\_ID:17352  
EP\_NO: 9523  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/31/2016 Abandoned. (DWR Sutter Yard-Afreitag)6/13/2016 Abandoned crossing.4/14/2016 Appears abandoned and if so, should be done so properly. Borrowing activity on landside (LS).8/28/2015 Pipe has been dug up and located along the WS levee toe.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 10-inch concrete encased steel drainage pipe through the levee, invert 15 feet below the crown, not found in 2016. Gate valve in a 42-inch corrugated metal pipe riser on the waterside (WS) slope, found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore). Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.7)].  
FS Date: 11/1/2016 1:16:56 PM

LM Start	<b>8.70</b>	Rating **	M	Issue No.	<b>115 (cont)</b>
LM End	<b>8.70</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50564\_74662.jpg



View of LS

Photo 2 of 2 : UCIP\_FA\_2016\_50564\_74661.jpg



42-inch riser on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	8.75	Rating **	U	Issue No.	116
LM End	8.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.252121 °	39.252121 °
				-121.997740 °	-121.997740 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50565  
DS\_ID:17353  
EP\_NO: 4491  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard- Afreitag)6/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)4/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)8/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)].  
FS Date: 11/1/2016 2:02:04 PM

LM Start	<b>8.75</b>	Rating **	U	Issue No.	<b>116 (cont)</b>
LM End	<b>8.75</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50565\_47216.jpg



Waterside view: overview of slide gate on steel structure (belongs to crossing at CLM-8.782)

Photo 2 of 2 : UCIP\_FA\_2016\_50565\_47215.jpg



Waterside view: slide gate on steel structure (belongs to crossing at CLM-8.782)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	8.75	Rating **	U	Issue No.	2
LM End	8.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.252260 °	39.252260 °
				-121.997721 °	-121.997721 °
DWR ID	DWR_ST0003_01_s _ 2012_2				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_2\_20160823\_00002.jpg



View of the building next to the toe of the levee.

LM Start	8.92	Rating **	N	Issue No.	92
LM End	8.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.254563 °	39.254563 °
				-121.997493 °	-121.997493 °
DWR ID	DWR_ST0003_01_f _ 2016_92				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	9.03	Rating **	N	Issue No.	91
LM End	9.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.256141 °	39.256141 °
				-121.997785 °	-121.997785 °
DWR ID	DWR_ST0003_01_f _ 2016_91				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	9.17	Rating **	N	Issue No.	90
LM End	9.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.257688 °	39.257688 °
				-121.999331 °	-121.999331 °
DWR ID	DWR_ST0003_01_f_2016_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	9.23	Rating **	M	Issue No.	89
LM End	9.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.257989 °	39.257989 °
				-122.000367 °	-122.000367 °
DWR ID	DWR_ST0003_01_f_2016_89				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

No Photos

LM Start	9.74	Rating **	M	Issue No.	88
LM End	9.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.264733 °	39.264733 °
				-121.998267 °	-121.998267 °
DWR ID	DWR_ST0003_01_f_2016_88				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	10.27	Rating **	M	Issue No.	4
LM End	10.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.270431 °	39.270431 °
				-121.999782 °	-121.999782 °
DWR ID	DWR_ST0003_01_s _ 2012_4				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_4\_20160823\_00003.jpg



View of the house and dog kennel at the landside toe.

LM Start	10.36	Rating **	M	Issue No.	5
LM End	10.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.270503 °	39.270503 °
				-122.001339 °	-122.001339 °
DWR ID	DWR_ST0003_01_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
The Elderberry is partially blocking visibility.					

No Photos

LM Start	10.36	Rating **	M	Issue No.	79
LM End	10.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.270495 °	39.270495 °
				-122.001360 °	-122.001360 °
DWR ID	DWR_ST0003_01_f_2016_79				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	10.51	Rating **	M	Issue No.	117
LM End	10.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.271928 °	39.271928 °
				-122.003422 °	-122.003422 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50571  
DS\_ID:17371  
EP\_NO: 9517  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 Abandoned. (DWR Sutter Yard-Afreitag)6/1/2016 Abandoned crossing.4/2/2015 Same as last inspection. Need to verify type of abandonment. Pump house not found on waterside of the levee. Looks abandoned as switch panel found without pump.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 18-inch steel irrigation pipe through the levee, 17.1 feet below the crown. Gate valve and flap gate in a concrete distribution box. Water meter in a corrugated metal pipe (CMP) riser at the landside (LS) toe. Gate valve in a CMP on the waterside (WS). Pipe was replaced in November 2005. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin).  
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.53)].  
FS Date: 11/1/2016 2:22:58 PM

LM Start	<b>10.51</b>	Rating **	M	Issue No.	<b>117 (cont)</b>
LM End	<b>10.51</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50571\_47270.jpg



Waterside view: CMP riser and abandoned service pole

Photo 2 of 2 : UCIP\_FA\_2016\_50571\_47269.jpg



Waterside view: CMP riser with gate valve

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	10.69	Rating **	M	Issue No.	139
LM End	10.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.274090 °	39.274090 °
				-122.005263 °	-122.005263 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50573  
DS\_ID:17350  
EP\_NO: 1369  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 Appears abandoned. (DWR Sutter Yard-AFreitag)6/1/2016 Appears to be an abandoned crossing.4/2/2015 Same as last inspection. Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch steel irrigation pipe through the levee, 4 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS toe. (Permit No. 1369, 1949 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.68)].  
FS Date: 11/2/2016 8:38:10 AM

LM Start	<b>10.69</b>	Rating **	M	Issue No.	<b>139 (cont)</b>
LM End	<b>10.69</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50573\_47284.jpg



Crown view: overview (both sides of the levee)

Photo 2 of 2 : UCIP\_FA\_2016\_50573\_47283.jpg



Waterside view: overview of exposed steel pipe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	11.53	Rating **	M	Issue No.	8
LM End	11.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID	DWR_ST0003_01_s _ 2016_8				
Comment Code					
Inspector Comment					
2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. 2015: Last observed in 2013. [2015 Site ID: SAC_152-6_L]					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_8\_20160823\_00004.jpg



USACE 2013 Photo #1

LM Start	11.67	Rating **	M	Issue No.	6
LM End	11.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.282064 °	39.285084 °
				-122.016517 °	-122.014815 °
DWR ID	DWR_ST0003_01_s _ 2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_6\_20161104\_00135.jpg



View of the ditch along the landside toe.

LM Start	11.85	Rating **	M	Issue No.	1
LM End	11.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID	DWR_ST0003_01_s _ 2016_1				
Comment Code					
Inspector Comment					
2004 - Slowly eroding but near vertical with no vegetation to hold it.					
2005 - Erosion is close to levee toe but not into the levee section yet.					
2010 - Some new toe scour. 2015: Last observed in 2013. [2015 Site ID: SAC_157-7_R]					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_1\_20160823\_00001.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

## Sutter Maintenance Yard East Levee Sacramento River

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.06	Rating **	M	Issue No.	140
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50579  
DS\_ID:17365  
EP\_NO: 9514  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- A Freitag)6/6/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessibile. Looks like cleaning required inside concrete surge tank on WS due to silting.7/2/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)].  
FS Date: 11/2/2016 8:54:16 AM

LM Start	<b>12.06</b>	Rating **	M	Issue No.	<b>140 (cont)</b>
LM End	<b>12.06</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50579\_47306.jpg



Waterside view: overview pipe, pump, surge box & CMP riser

Photo 2 of 2 : UCIP\_FA\_2016\_50579\_47305.jpg



Waterside view: steel pipe, pump, surge box & CMP riser

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.43	Rating **	U	Issue No.	141
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50580  
DS\_ID:17366  
EP\_NO: 9513  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- AFreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].  
FS Date: 11/2/2016 8:55:09 AM

Photo 1 of 2 : UCIP\_FA\_2016\_50580\_47313.jpg



Waterside view: overview of slanted pump and shed

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.43	Rating **	U	Issue No.	141 (cont)
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50580  
DS\_ID:17366  
EP\_NO: 9513  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- AFreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].  
FS Date: 11/2/2016 8:55:09 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50580\_47312.jpg



Waterside view: pump station and walkway

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.56	Rating **	U	Issue No.	146
LM End	12.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50582  
DS\_ID:17367  
EP\_NO: 2971  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 No repairs have been made here yet. Sinkhole is still present at the WS surge box. (DWR Sutter Yard - A Freitag) 6/6/2016 Pumps were connected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - A Freitag) 4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - Kfazel) 4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - A Freitag) 7/2/2014 Same as last inspection. (DWR Sutter Yard - A Freitag) 12/19/2013 Same as last inspection. (DWR Sutter Yard - A Freitag) 7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - A Freitag) 12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].  
FS Date: 11/2/2016 8:57:24 AM

Photo 1 of 2 : UCIP\_FA\_2016\_50582\_47323.jpg



Waterside view: overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.56	Rating **	U	Issue No.	146 (cont)
LM End	12.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50582  
DS\_ID:17367  
EP\_NO: 2971  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 No repairs have been made here yet. Sinkhole is still present at the WS surge box. (DWR Sutter Yard - A Freitag) 6/6/2016 Pumps were connected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - A Freitag) 4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - Kfazel) 4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - A Freitag) 7/2/2014 Same as last inspection. (DWR Sutter Yard - A Freitag) 12/19/2013 Same as last inspection. (DWR Sutter Yard - A Freitag) 7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - A Freitag) 12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - Pamatya)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].  
FS Date: 11/2/2016 8:57:24 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50582\_47322.jpg



Waterside view: concrete surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.74	Rating **	M	Issue No.	147
LM End	12.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.296965 °	39.296965 °
				-122.014266 °	-122.014266 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50583  
DS\_ID:17368  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/31/2016 Appears abandoned. (DWR Sutter Yard-AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 4/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.4/2/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. Only CMP riser found.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)].  
FS Date: 11/2/2016 8:59:24 AM

LM Start	<b>12.74</b>	Rating **	M	Issue No.	<b>147 (cont)</b>
LM End	<b>12.74</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50583\_75075.jpg



View of landside from crown.

Photo 2 of 2 : UCIP\_FA\_2016\_50583\_75076.jpg



WS view: 12-inch slide gate inside CMP riser on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.85	Rating **	M	Issue No.	76
LM End	12.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.298582 °	39.298582 °
				-122.014105 °	-122.014105 °
DWR ID	DWR_ST0003_01_f_2016_76				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_76\_20161104\_00136.jpg



View of the ag equipment along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.96	Rating **	U	Issue No.	148
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140°	39.300140°
				-122.013599°	-122.013599°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50584 DS_ID:17369 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/31/2016 No repairs have been made here yet. Bad erosion stil present at the WS toe distridution box.(DWR Sutter Yard- AFreitag)6/3/2016 Bad erosion stil present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)]. FS Date: 11/2/2016 9:03:02 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_50584\_47336.jpg



Waterside view: CMP riser on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	12.96	Rating **	U	Issue No.	148 (cont)
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50584  
DS\_ID:17369  
EP\_NO: 9510  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 No repairs have been made here yet. Bad erosion stil present at the WS toe distridution box.(DWR Sutter Yard- AFreitag)6/3/2016 Bad erosion stil present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].  
FS Date: 11/2/2016 9:03:02 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50584\_47334.jpg



Waterside view: overview of concrete surge box

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	13.38	Rating **	M	Issue No.	149
LM End	13.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50585 DS_ID:17340 EP_NO: 9511 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/31/2016 Abandoned. (DWR Sutter Yard-AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)]. FS Date: 11/2/2016 9:06:25 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_50585\_47343.jpg



Waterside view: CMP riser with slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	13.38	Rating **	M	Issue No.	149 (cont)
LM End	13.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50585  
DS\_ID:17340  
EP\_NO: 9511  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 Abandoned. (DWR Sutter Yard-AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].  
FS Date: 11/2/2016 9:06:25 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50585\_47342.jpg



Waterside view: overview of CMP riser and outlet pipe

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

## Sutter Maintenance Yard East Levee Sacramento River

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	13.93	Rating **	M	Issue No.	125
LM End	13.93	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.314025 °	39.314025 °
				-122.012959 °	-122.012959 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50586  
DS\_ID:17361  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.4/2/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)].  
FS Date: 11/2/2016 9:12:55 AM

LM Start	<b>13.93</b>	Rating **	M	Issue No.	<b>125 (cont)</b>
LM End	<b>13.93</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50586\_47349.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 2 : UCIP\_FA\_2016\_50586\_47348.jpg



Waterside view: inside CMP riser

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	14.32	Rating **	M	Issue No.	73
LM End	14.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.318793 °	39.318793 °
				-122.015832 °	-122.015832 °
DWR ID	DWR_ST0003_01_f_2016_73				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_73\_20161104\_00139.jpg



View of a tree limb hanging over the landside slope.

LM Start	14.47	Rating **	M	Issue No.	72
LM End	14.47	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.321007 °	39.321007 °
				-122.016058 °	-122.016058 °
DWR ID	DWR_ST0003_01_f_2016_72				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	14.56	Rating **	M	Issue No.	126
LM End	14.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50589  
DS\_ID:17331  
EP\_NO: 1833  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- A Freitag) 6/15/2016 No changes made to this crossing. Leaky pipe marker still present. 4/14/2016 Levee slightly caved in one side of surge box on WS. 4/2/2015 Leaks during high water. Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser. 7/2/2014 Same as last inspection. 12/19/2013 Same as last inspection. 7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].  
FS Date: 11/2/2016 9:16:01 AM

LM Start	<b>14.56</b>	Rating **	M	Issue No.	<b>126 (cont)</b>
LM End	<b>14.56</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50589\_47363.jpg



Waterside view: CMP riser with slide gate and surge box

Photo 2 of 2 : UCIP\_FA\_2016\_50589\_47362.jpg



Waterside view: new steel pipe sleeved through CMP pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	15.17	Rating **	M	Issue No.	71
LM End	15.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.330578 °	39.333842 °
				-122.018485 °	-122.022225 °
DWR ID	DWR_ST0003_01_f_2016_71				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_71\_20161104\_00140.jpg



View of a ditch along the landside toe.

LM Start	15.48	Rating **	M	Issue No.	127
LM End	15.48	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.333868 °	39.333868 °
				-122.022243 °	-122.022243 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50591 DS_ID:17333 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. REst of crossing appears in good condition. (DWR Sutter Yard- AFreitag)6/15/2016 Both pipe ends were underwater but appear to be in good condition.4/2/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.Water full on inlet and outlet of the structure.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)]. FS Date: 11/2/2016 9:22:15 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_50591\_47371.jpg



Crown view: overview (both sides of the levee)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	15.48	Rating **	M	Issue No.	127 (cont)	
LM End	15.48	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.333868 °	39.333868 °	
				-122.022243 °	-122.022243 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50591 DS_ID:17333 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. REst of crossing appears in good condition. (DWR Sutter Yard- AFreitag)6/15/2016 Both pipe ends were underwater but appear to be in good condition.4/2/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.Water full on inlet and outlet of the structure.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)]. FS Date: 11/2/2016 9:22:15 AM						

Photo 2 of 2 : UCIP\_FA\_2016\_50591\_47370.jpg



Waterside view: CMP riser, inlet box and water transfer ditch

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	15.81	Rating **	M	Issue No.	128
LM End	15.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.338029 °	39.338029 °
				-122.022711 °	-122.022711 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50592 DS_ID:17334 EP_NO: 2599 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.  7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2599, 1957 - Honolulu Oil Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/2/2016 9:23:25 AM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	16.12	Rating **	M	Issue No.	129
LM End	16.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341653 °	39.341653 °
				-122.023908 °	-122.023908 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50593 DS_ID:17335 EP_NO: 2651 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.  7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/2/2016 9:24:02 AM					

No Photos

LM Start	16.21	Rating **	M	Issue No.	130
LM End	16.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342905 °	39.342905 °
				-122.024215 °	-122.024215 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50594 DS_ID:17336 EP_NO: 2651 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.5 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/2/2016 9:24:28 AM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	<b>16.30</b>	Rating **	M	Issue No.	<b>131</b>
LM End	<b>16.30</b>	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.344177 °	39.344177 °	
			-122.024300 °	-122.024300 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50595  
DS\_ID:17337  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/1/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- A Freitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesn't pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.4/14/2016 Same as last inspection.4/2/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate.  
FIELD\_STRUCT\_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe.  
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].  
FS Date: 11/2/2016 9:25:16 AM

LM Start	<b>16.30</b>	Rating **	M	Issue No.	<b>131 (cont)</b>
LM End	<b>16.30</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50595\_75096.jpg



View from crown down WS slope at location of crossing.

Photo 2 of 2 : UCIP\_FA\_2016\_50595\_75097.jpg



View of LS from crown at location of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	16.43	Rating **	M	Issue No.	132
LM End	16.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345635 °	39.345635 °
				-122.022915 °	-122.022915 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50597  
DS\_ID:17349  
EP\_NO: 9500  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 11/1/2016 Abandoned. (DWR Sutter Yard-AFreitag)6/15/2016 Abandoned- WS slide gate and LS distribution box are silted over.4/16/2016 Same as last inspection. Appears abandoned and should be done so properly.4/2/2015 WS slide gate and LS distribution box are still silted over.Seems abandoned as slide gate and distribution box silted.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 48-inch corrugated metal irrigation and drainage pipe through the levee, 17 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months, not found in 2016. Discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.42)].  
FS Date: 11/2/2016 9:26:00 AM

LM Start	<b>16.43</b>	Rating **	M	Issue No.	<b>132 (cont)</b>
LM End	<b>16.43</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50597\_47380.jpg



Waterside view: overview of slide gate

Photo 2 of 2 : UCIP\_FA\_2016\_50597\_47379.jpg



Waterside view: slide gate on steel structure

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	16.43	Rating **	M	Issue No.	70
LM End	16.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.345695 °	39.345695 °
				-122.022820 °	-122.022820 °
DWR ID	DWR_ST0003_01_f_2016_70				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	16.93	Rating **	M	Issue No.	69
LM End	16.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347263 °	39.347263 °
				-122.015608 °	-122.015608 °
DWR ID	DWR_ST0003_01_f_2016_69				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

No Photos

LM Start	16.96	Rating **	M	Issue No.	68
LM End	16.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347312 °	39.347312 °
				-122.015137 °	-122.015137 °
DWR ID	DWR_ST0003_01_f_2016_68				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_68\_20161104\_00141.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard East Levee Sacramento River

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	17.69	Rating **	M	Issue No.	64
LM End	17.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.355142 °	39.355142 °
				-122.009242 °	-122.009242 °
DWR ID	DWR_ST0003_01_f_2016_64				
Comment Code					
FW : Firewood					
Inspector Comment					
Move the firewood 10' from the landside toe.					

No Photos

LM Start	17.97	Rating **	M	Issue No.	63
LM End	17.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358920 °	39.358920 °
				-122.007537 °	-122.007537 °
DWR ID	DWR_ST0003_01_f_2016_63				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_264\_63\_20161104\_00145.jpg



View of the ag equipment along the landside toe.

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	18.07	Rating **	M	Issue No.	133
LM End	18.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359675 °	39.359675 °
				-122.005879 °	-122.005879 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50601 DS_ID:17342 EP_NO: 14217 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 1 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985 - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/2/2016 9:31:36 AM					

No Photos

LM Start	18.07	Rating **	M	Issue No.	134
LM End	18.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359675 °	39.359675 °
				-122.005879 °	-122.005879 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50602 DS_ID:17520 EP_NO: 14217 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985, - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/2/2016 9:32:06 AM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard East Levee Sacramento River

No Photos

View of the ag equipment along the landside toe.

View of the grape vine and annual grass along the landside slope.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	18.19	Rating **	M	Issue No.	135
LM End	18.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359983 °	39.359983 °
				-122.003732 °	-122.003732 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50603  
DS\_ID:17343  
EP\_NO: 9502  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/1/2016 Abandoned. (DWR Sutter Yard-AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly.

7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman). (Additional Related Permit(s): Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)].  
FS Date: 11/2/2016 9:32:39 AM

LM Start	<b>18.19</b>	Rating **	M	Issue No.	<b>135 (cont)</b>
LM End	<b>18.19</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50603\_47394.jpg



Waterside view: overview of gate riser

Photo 2 of 2 : UCIP\_FA\_2016\_50603\_47392.jpg



Waterside view: inside gate riser

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	18.20	Rating **	M	Issue No.	136
LM End	18.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359948 °	39.359948 °
				-122.003591 °	-122.003591 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50604 DS_ID:17344 EP_NO: 12930A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 3.5-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 12930-A, 1980 - Jordan Oil and Gas Co.). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 11/2/2016 9:33:17 AM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	19.55	Rating **	M	Issue No.	137
LM End	19.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50612  
DS\_ID:17487  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/1/2016 Abandoned.(DWR Sutter Yard-AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown. Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].  
FS Date: 11/2/2016 9:43:02 AM

LM Start	<b>19.55</b>	Rating **	M	Issue No.	<b>137 (cont)</b>
LM End	<b>19.55</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50612\_47449.jpg



Waterside view: overview

Photo 2 of 2 : UCIP\_FA\_2016\_50612\_47448.jpg



Waterside view: abandoned and ruined pipe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/20/2016 10/26/2016	Tariq Chechi

LM Start	19.97	Rating **	M	Issue No.	138
LM End	19.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50613  
DS\_ID:17370  
EP\_NO: 9496  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/1/2016 Abandoned. (DWR Sutter Yard-AFreitag)6/3/2016 Abandoned crossing4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].  
FS Date: 11/2/2016 9:44:08 AM

LM Start	<b>19.97</b>	Rating **	M	Issue No.	<b>138 (cont)</b>
LM End	<b>19.97</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50613\_47459.jpg



Waterside view: overview

Photo 2 of 2 : UCIP\_FA\_2016\_50613\_47457.jpg



Waterside view: gate riser with slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/22/2016 - 3/22/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

**Summer & Winter Inspections**

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## Sutter Maintenance Yard East Levee Sacramento River

No Photos

View of the overgrown tree along the waterside slope.

View of the overgrown tree along the landside toe.

Page 1 of 3

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/20/2016 10/20/2016	Tariq Chechi

LM Start	1.20	Rating **	M	Issue No.	6
LM End	1.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229526 °	39.229526 °
				-121.975686 °	-121.975686 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:49161  
DS\_ID:17531  
EP\_NO: 13534  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 6/3/2016 Crossing appears to be in good condition.4/6/2015 Same as last inspection. May need to add more substantial gasoline markers.7/7/2014 Same as last inspection.12/19/2013 Same as last inspection.7/22/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 2.5-inch asphalt coated steel gas pipeline through the levee, 2.5 feet below the crown. A gas line marker found on the landside (LS). (Permit No. 13534, 1982 - Texaco, Incorporated).  
[Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 6/16/2016 10:00:15 AM

LM Start	<b>1.20</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>1.20</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_49161\_47480.jpg



Landside view: overview gasoline indicator

Photo 2 of 2 : UCIP\_FA\_2016\_49161\_47479.jpg



Landside view: overview gasoline indicator

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/20/2016 10/20/2016	Tariq Chechi

LM Start	2.02	Rating **	M	Issue No.	4
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.227865 °	39.227868 °
				-121.962233 °	-121.959095 °
DWR ID	DWR_ST0003_02_f_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_265\_4\_20161104\_00007.jpg



View of the waterside vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/22/2016 - 3/22/2016		10/27/2016 - 10/27/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

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## Sutter Maintenance Yard East Levee Sacramento River

## Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	10/27/2016 10/27/2016	Tariq Chechi

Photo 1 of 1 : FA\_2016\_ST0003\_266\_7\_20161104\_00004.jpg



View of the erosion along the waterside slope.

Photo 1 of 1 : FA\_2016\_ST0003\_266\_4\_20161104\_00005.jpg



View of the slope instability along the landside slope.

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	10/27/2016 10/27/2016	Tariq Chechi

LM Start	2.04	Rating **	M	Issue No.	5
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244948 °	39.244898 °
				-121.963805 °	-121.959117 °
DWR ID	DWR_ST0003_03_f_2016_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_266\_5\_20161104\_00006.jpg



View of the landside vegetation.

LM Start	2.04	Rating **	M	Issue No.	6
LM End	2.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244923 °	39.244898 °
				-121.963775 °	-121.959117 °
DWR ID	DWR_ST0003_03_f _ 2016_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_266\_6\_20161104\_00007.jpg



View of the waterside vegetation.

LM Start	2.13	Rating **	M	Issue No.	2
LM End	2.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244925 °	39.244925 °
				-121.962072 °	-121.962072 °
DWR ID	DWR_ST0003_03_s_2015_2				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/22/2016 - 3/22/2016		10/26/2016 - 10/26/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By			Bryan Reniff Sutter Maintenance Yard	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	10/26/2016 10/26/2016	Tariq Chechi

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.338149 °	39.338149 °
				-122.022226 °	-122.022226 °
DWR ID	DWR_ST0003_04_f_2016_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_267\_1\_20161104\_00001.jpg



View of the levee crown and landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.19
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/22/2016 - 3/22/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	10/20/2016 10/20/2016	Tariq Chechi

LM Start	1.59	Rating **	M	Issue No.	1
LM End	2.18	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.335953 °	39.336852 °
				-121.995807 °	-121.984934 °
DWR ID	DWR_ST0003_05_s _ 2016_1				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0003\_268\_1\_20161104\_00002.jpg



View of the fence obstructing access.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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